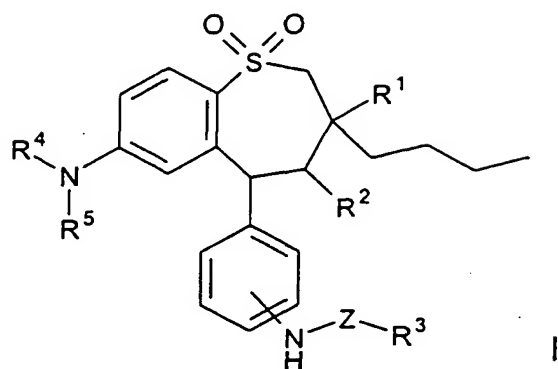


We claim:

1. A compound of formula I



in which

R^1 is methyl, ethyl, propyl, or butyl;

R^2 is H, OH, NH_2 , or $NH-(C_1-C_6)$ -alkyl;

R^3 is a sugar radical, a disugar radical, a trisugar radical, a tetrasugar radical, wherein said radicals are optionally mono- or polysubstituted by a sugar protective group;

R^4 is methyl, ethyl, propyl, or butyl;

R^5 is methyl, ethyl, propyl, or butyl;

Z is $-(C=O)_n-(C_0-C_{16})$ -alkyl, $-(C=O)_n-(C_0-C_{16})$ -alkyl-NH-, $-(C=O)_n-(C_0-C_{16})$ -alkyl-O-, $-(C=O)_n-(C_1-C_{16})$ -alkyl- $(C=O)_m$, or a covalent bond;

n is 0 or 1;

m is 0 or 1;

5 or a pharmaceutically tolerable salt thereof, or a physiologically functional derivative thereof.

2. The compound of formula I as claimed in claim 1, wherein:

10 R^1 is ethyl, propyl, or butyl;

R^2 is H, OH, NH_2 , or $NH-(C_1-C_6)$ -alkyl;

R^3 is a sugar radical or disugar radical, wherein said radicals are optionally mono- or polysubstituted by a sugar protective group;

15 R^4 is methyl, ethyl, propyl, or butyl;

R^5 is methyl, ethyl, propyl, or butyl;

20 Z is $-(C=O)_n-(C_0-C_{16})$ -alkyl-, $-(C=O)_n-(C_0-C_{16})$ -alkyl-NH-,
 $-(C=O)_n-(C_0-C_{16})$ -alkyl-O-, $-(C=O)_n-(C_1-C_{16})$ -alkyl- $(C=O)_m$, or a covalent bond;

n is 0 or 1;

25 m is 0 or 1;

or a pharmaceutically tolerable salt thereof.

3. The compound of formula I as claimed in claim 1, wherein:

30 R^1 is ethyl or butyl;

R² is OH;

R³ is a sugar radical, wherein the sugar radical is optionally mono- or polysubstituted by a sugar protective group;

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R⁴ is methyl;

R⁵ is methyl;

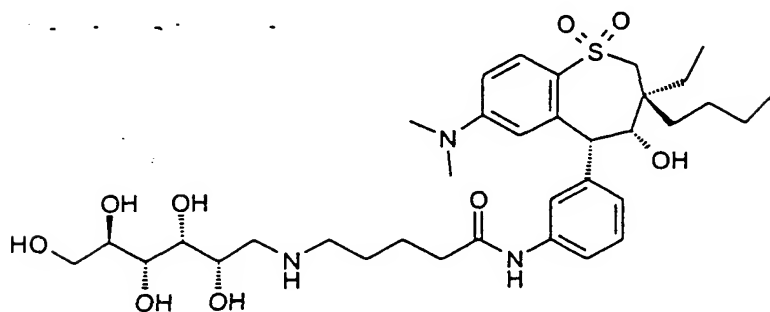
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Z is -(C=O)-(C₀-C₄)-alkyl or a covalent bond;

or a pharmaceutically tolerable salt thereof.

4. A compound of the following structure:

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or a pharmaceutically tolerable salt thereof.

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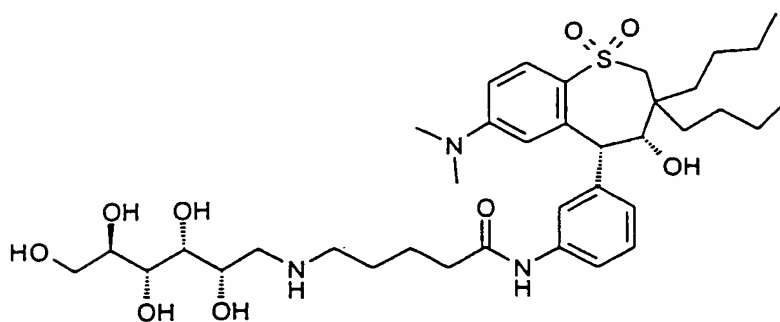
5. A pharmaceutical composition, comprising the compound as claimed in claim 4, and at least one pharmacologically tolerable excipient.

6. A method for the prophylaxis or treatment of a lipid metabolism disorder in a human or animal patient, comprising:

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administering to the patient in need of said prophylaxis or treatment an effective amount of the compound as claimed in claim 4.

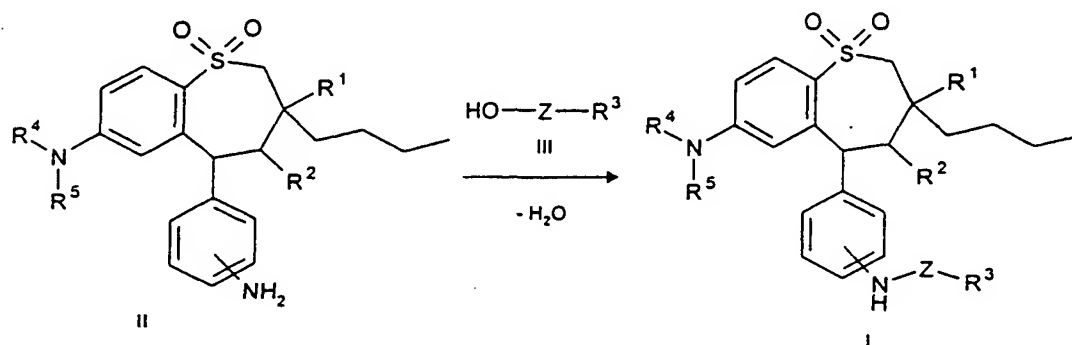
7. A method for the prophylaxis or treatment of gallstones in a human or animal patient, comprising:
administering to the patient in need of such prophylaxis or treatment an effective amount of the compound as claimed in claim 4.
8. A method for the prophylaxis or treatment of hyperlipidemia in a human or animal patient, comprising:
administering to the patient in need of such prophylaxis or treatment an effective amount of the compound as claimed in claim 4.
9. A method for lowering the serum cholesterol level in a human or animal patient, comprising:
administering to the patient in need of said lowering an effective amount of the compound as claimed in claim 4.
10. A method for the prophylaxis or treatment of one or more arteriosclerotic symptoms in a human or animal patient, comprising:
administering to the patient in need of said prophylaxis or treatment an effective amount of the compound as claimed in claim 4.
11. A compound of the following structure:



or a pharmaceutically tolerable salt thereof.

12. A pharmaceutical composition, comprising the compound as claimed in claim 11, and at least one pharmacologically tolerable excipient.
- 5 13. A method for the prophylaxis or treatment of a lipid metabolism disorder in a human or animal patient, comprising:
administering to the patient in need of said prophylaxis or treatment an effective amount of the compound as claimed in claim 11.
- 10 14. A method for the prophylaxis or treatment of gallstones in a human or animal patient, comprising:
administering to the patient in need of such prophylaxis or treatment an effective amount of the compound as claimed in claim 11.
- 15 15. A method for the prophylaxis or treatment of hyperlipidemia in a human or animal patient, comprising:
administering to the patient in need of such prophylaxis or treatment an effective amount of the compound as claimed in claim 11.
- 20 16. A method for lowering the serum cholesterol level in a human or animal patient, comprising:
administering to the patient in need of said lowering an effective amount of the compound as claimed in claim 11.
- 25 17. A method for the prophylaxis or treatment of one or more arteriosclerotic symptoms in a human or animal patient, comprising:
administering to the patient in need of said prophylaxis or treatment an effective amount of the compound as claimed in claim 11.

18. A process for the preparation of a compound of formula I, as claimed in claim 1, wherein said process comprises reacting, according to the following equation,



an amine of formula II or a salt thereof, in which R^1 , R^2 , R^4 and R^5 have the meanings indicated for formula I, with a compound of formula III or a salt thereof, in which R^3 and Z have the meanings indicated for formula I, with elimination of water to give a compound of formula I; and optionally converting the compound of formula I obtained into a physiologically tolerable salt thereof.

19. A pharmaceutical composition comprising one or more compounds of formula I as claimed in claim 1, and at least one pharmacologically tolerable excipient.

20. The pharmaceutical composition as claimed in claim 19, further comprising one or more statins.

21. A pharmaceutical composition for the prophylaxis or treatment of a lipid metabolism disorder, comprising an effective amount of one or more compounds of formula I as claimed in claim 1, and at least one pharmacologically tolerable excipient.

22. A method for the prophylaxis or treatment of a lipid metabolism disorder in a human or animal patient, comprising:
administering to the patient in need of said prophylaxis or treatment an effective amount of the compound of formula I as claimed in claim 1.

23. A pharmaceutical composition for the prophylaxis or treatment of gallstones, comprising an effective amount of one or more compounds of formula I as claimed in claim 1, and at least one pharmacologically tolerable excipient.
- 5
24. A method for the prophylaxis or treatment of gallstones in a human or animal patient, comprising:
administering to the patient in need of such prophylaxis or treatment an effective amount of the compound of formula I as claimed in claim 1.
- 10
25. A pharmaceutical composition for the prophylaxis or treatment of hyperlipidemia, comprising an effective amount of one or more compounds of formula I as claimed in claim 1, and at least one pharmacologically tolerable excipient.
- 15
26. A method for the prophylaxis or treatment of hyperlipidemia in a human or animal patient, comprising:
administering to the patient in need of such prophylaxis or treatment an effective amount of the compound of formula I as claimed in claim 1.
- 20
27. A pharmaceutical composition for lowering the serum cholesterol level in a human or animal patient, comprising an effective amount of one or more compounds of formula I as claimed in claim 1, and at least one pharmacologically tolerable excipient.
- 25
28. A method for lowering the serum cholesterol level in a human or animal patient, comprising:
administering to the patient in need of said lowering an effective amount of the compound of formula I as claimed in claim 1.
- 30
29. A pharmaceutical composition for the prophylaxis or treatment of one or more arteriosclerotic symptoms, comprising an effective amount of one or more

compounds of formula I as claimed in claim 1, and at least one pharmacologically tolerable excipient.

30. A method for the prophylaxis or treatment of one or more arteriosclerotic symptoms
in a human or animal patient, comprising:
administering to the patient in need of said prophylaxis or treatment an effective
amount of the compound of formula I as claimed in claim 1.

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